



HM-ECG12CH

12-Ch ECG Machine

1. Overview

1.1 Features Overview

- 1.1.1 Simultaneously 12 leads Acquisition
- 1.1.2 Applicable Range:
Adult and pediatric
- 1.1.3 21 Languages:
Simplified Chinese, Traditional Chinese, English,
Ukrainian, Turkish, Russian, French, Portuguese,
Spanish, German, Italian, Polish, Romanian,
Bulgarian, Croatian, Thailand, Czech, Hungary,
Slovenian, Serbia, Greece
- 1.1.4 Built-in protection against defibrillator

1.2 Structure and Composition

- 1.2.1 Screen
9.7-inch LCD touch screen with standard grid
background; 1024*768 pixel;
- 1.2.2 Handle
The foldable handle designs for easier carrying. It
also functions as an angled stand for better visual
when folded.



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- 1.2.3 Interfaces
2 USB ports, LAN connectors, SD card slot;
Support to connect to keyboard, mouse, card reader, printer and etc.
- 1.2.4 Keyboard
Standard qwerty keyboard and shortcut keys
- 1.2.5 Internal thermal printer
- 1.3 Power Specifications**
 - 1.3.1 AC Power
100V-240V, 50Hz/60Hz, 120VA
 - 1.3.2 Battery
Rechargeable li-ion battery (14.8V/4400mAh);
Working continuously for more than 7 hours.

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1.4 Environmental Conditions

1.4.1 Operation condition

Ambient Temperature: + 5°C ~ + 40°C

Ambient Humidity: 20%~85% (no condensation)

Atmospheric Pressure: 570hPa~1060hPa

1.4.2 Shipment and Storage

Ambient Temperature: - 20°C ~ +55°C

Ambient Humidity: 10%~95%

Atmospheric Pressure: 500hPa~1060hPa

1.5 Dimension and Weight

Equipment: 285mm*360mm*94mm; 3.6kg (with battery)

Package: 446mm*238mm*483mm; 6.2kg

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2. Functions

2.1 Lead System

Standard Wilson, Posterior Wall, Right Chest, Right Chest Posterior Wall, Previous Intercostal Space, Next Intercostal Space, Cabrera, and customized mode.

2.2 Sampling Mode

2.2.1 Real-time sampling mode:

Auto-simultaneous, Auto-sequential manual, Rhythm (1-5 min)

2.2.2 Pre-sampling mode

2.2.3 Triggered sampling mode

2.2.4 Periodic sampling mode

2.3 Freeze

Max 60 s waveform freezing and review function.

2.4 Printing Duration

2.5 sec, 5 sec, 7 sec, 10 sec, Two pages, Three pages, Four pages

2.5 Display and Print Layout

3×4, 3×4+1, 3×4+3, 6×2, 6×2+1, 12×1, 6×2+3



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2.6 Recording and Analysis

- 2.6.1 Pace detection
- 2.6.2 Minnesota code
- 2.6.3 Auto diagnosis and Re-analysis
- 2.6.4 Auto measurement
- 2.6.5 R-R histogram
- 2.6.6 R-R chart

2.7 Alarm

- 2.7.1 Bradycardia and Tachycardia

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- 2.7.2 Lead-off
- 2.7.3 Recorder unavailable
- 2.7.4 Low-battery
- 2.8 **Network**
Wi-Fi and cable networking
- 2.9 **Support Graded Gain**
- 2.10 **Connectivity**
Support direct access to third-party network systems, such as HIS, EMR and other systems.

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2.11 Report Formats

ZQECG, JPG, PDF, PNG, XML, HL7, DICOM-JPG, DICOM-PDF, DICOM-WAVEFORM

2.12 Transfer Protocol

Support FTP, Dicom, HTTP and samba transfer protocol

2.13 Storage

2.13.1 Local

≥20,000 reports.

2.13.2 USB (SD card)

Reports can be saved directly in USB (SD card) only when it is inserted. Reports are stored in ZQECG format and can be viewed on our ECG Machine or ECG workstation.

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3. Technique Specification



- 3.1 Sampling Rate**
32000 samples per second (or Hz/channel)
- 3.2 A/D shift**
24 bits
- 3.3 Input Impedance:**
 $\geq 60 \text{ M } \Omega$ (10 Hz)
- 3.4 Polarization Resistance**
 $\pm 950 \text{ mV} \pm 3\%$
- 3.5 Frequency Response**
0.01~ 350Hz
- 3.6 Time Constant**
 $\geq 3.2 \text{ S}$
- 3.7 CMRR**
 $\geq 115 \text{ dB}$
- 3.8 System Noise**
RTI, peak-to-valley value: $\leq 15 \text{ mV}$
- 3.9 Gain**
40, 20, 10, 5, 2.5, Auto mm/mV

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- 3.10 Paper Speed**
5, 6.25, 10, 12.25, 25, 50 mm/s
- 3.11 Calibration Voltage**
1 mV $\pm$ 2%
- 3.12 Patient Leakage Current**
 $\leq 10 \mu V$
- 3.13 Recording Mode**
Thermal array printer;
8 dot/mm (vertical)
40 dot/mm (horizontal, 25mm/s)
- 3.14 Paper Specifications**
Z-fold Paper; 210mm/216mm* 140mm-20m
- 3.15 Filter Setting**
AC: off/50/60Hz
Baseline Drift: off/0.01/0.05/0.3/0.6Hz
EMG: off/25/35/45/75/100/150/250/350Hz
- 3.16 Heart Rate Range**
30-350 bpm

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4. Standard Accessories

- 4.1 Main Unit
- 4.2 Limb Electrodes-Adult/IEC/4 per Set
- 4.3 Chest electrodes-Adult/IEC/6 per Set
- 4.4 ECG Cable-ECG Cable\12-lead/banana plug
- 4.5 Power cord
- 4.6 Thermal paper-210mm×140mm/20m
- 4.7 Ground wire-Clip type
- 4.8 User manual
- 4.9 Warranty card (with certificate of conformity)
- 4.10 Instruction card

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5. Optional

5.1 Patient Cable

- 5.1.1 Banana type ECG cable
- 5.1.2 Snap type ECG cable
- 5.1.3 Clip type ECG cable

5.2 Electrodes

- 5.2.1 Chest electrodes-Adult/pediatric
- 5.2.2 Limb electrodes-Adult/pediatric
- 5.2.3 Disposable electrodes-Snap Type-Adult/Pediatric
- 5.2.4 Electrodes adapter
Banana type to Snap and Clip type

5.3 Others

- 5.3.1 Digital ECG workstation
- 5.3.2 VCG software
- 5.3.3 TVCG software

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